PATENT COOPERATION TREATY **PCT**

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PCT WIPO INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference UNI01.09P	FOR FURTHER ACTION	See Form PCT/IPEA/416			
International application No.	International filing date (day/mo				
PCT/AU2004/001507	29 October 2004	31 October 2003			
International Patent Classification (IPC) or	national classification and IPC				
Int. Cl. 7 G06K 9/00	·				
Applicant THE UNIVERSITY OF QUEEN	NSLAND et al				
·		·			
This report is the international prelimin Authority under Article 35 and transmit	nary examination report, established itted to the applicant according to A	d by this International Preliminary Examining Article 36.			
2. This REPORT consists of a total of 3	sheets, including this cover sheet				
3. This report is also accompanied by AN	INEXES, comprising:				
a. (sent to the applicant and to the	he International Bureau) a total of	sheets, as follows:			
sheets of the description, sheets containing rectific Administrative Instruction	cations authorized by this Authority	re been amended and are the basis for this report and/or research (see Rule 70.16 and Section 607 of the			
the disclosure in the inte Box.	rnational application as filed, as in	rity considers contain amendment that goes beyond licated in item 4 of Box No. I and the Supplemental			
a sequence listing and/or table	eau only) a total of (indicate type a e related thereto, in computer reada (see Section 802 of the Administra	nd number of electronic carrier(s)) , containing ble form only, as indicated in the Supplemental Box tive Instructions).			
4. This report contains indications relati	ing to the following items:				
X Box No. I Basis of the rep	oort .				
Box No. II Priority	Box No. II Priority .				
Box No. III Non-establishn	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of unity of invention					
X Box No. V Reasoned state citations and ex	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain docum	ents cited				
Box No. VII Certain defects in the international application					
Box No. VIII Certain observe	Box No. VIII Certain observations on the international application				
Date of submission of the demand	Date of	completion of the report			
12 April 2005	•	ember 2005			
Name and mailing address of the IPEA/AU	Authoriz	ed Officer			
AUSTRALIAN PATENT OFFICE					
PO BOX 200, WODEN ACT 2606, AUSTR E-mail address: pct@ipaustralia.gov.au	RALIA	HEW HOLLINGWORTH			
Facsimile No. (02) 6285 3929	Telepho	ne No. (02) 6283 2024			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001507

30x	No. I	Basis of th	ne report	Clad colors
	otherwise	e indicated und	der this iten	•
	This whi	s report is base ch is the langu	ed on transl lage of a tra	ations from the original language into the following language anslation furnished for the purposes of:
		internation	al search (u	ander Rules 12.3 and 23.1 (b))
		」 .		rnational application (under Rule 12.4)
				ary examination (under Rules 55.2 and/or 55.3)
2.	furnished filed" and	d to the receiv d are not anno	ing Office i exed to this	e international application, this report is based on (replacement sheets which have been in response to an invitation under Article 14 are referred to in this report as "originally report):
	X the	international	аррисацоп	as originally filed/furnished
	the	description:		
			pages	as originally filed/furnished
			pages*	received by this Authority on with the letter of
			pages*	received by this Authority on with the letter of
	the	claims:		
			pages	as originally filed/furnished
•			pages*	as amended (together with any statement) under Article 19
•			pages*	received by this Authority on with the letter of
			pages*	received by this Authority on with the letter of
	the	drawings:		
			pages	as originally filed/furnished
			pages*	received by this Authority on with the letter of
			pages*	received by this Authority on with the letter of
•				y related table(s) - see Supplemental Box Relating to Sequence Listing.
3.	Th.	e amendment	s have resul	lted in the cancellation of:
		the desc	cription, pa	ges
		the clair	ms, Nos.	
		the drav	wings, shee	ts/figs
			•	g (specify):
				d to the sequence listing (specify):
4.	ma	nis report has lade, since they	been establi y have been	ished as if (some of) the amendments annexed to this report and listed below had not been a considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule
		the des	cription, pa	nges .
		the clai	ims, Nos.	
		the dra	wings, shee	ets/figs
• •		<u></u>	_	ng (specify):
		" لب		d to the sequence listing (specify):
*	If item	4 applies, som	e or all of th	ose sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/AU2004/001507

DX No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement	•	·
Novelty-(N)	Claims 1-18	YES
11010101 (-1)	Claims	NO
Inventive step (IS)	Claims 1-18	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-18	YES
man apparent ()	Claims	NO

Citations and explanations (Rule 70.7)

- D1: Downs, T. et al, Exact Simplification of Support Vector Solutions
- D2: Lee, Y.- J. et al, RSVM: Reduced Support Vector Machines
- D3: Fung, G. M. et al, Minimal Kernel Classifiers
- D4: US 2003/0093393 A1 (MANGASARIAN et al), 15 May 2003
- D5: US 6,134,344 A (BURGES), 17 October 2000

The above documents represent the closest available prior art. The features of the claimed invention are not disclosed in these documents, or in any others published before the earliest priority date. In particular, the minimisation of the sum of distances of a linearly independent set of support vectors appears to be novel and inventive.